

WHAT IS CLAIMED IS:

- 1 1. A computer implemented method for provisioning broadband service in
2 a Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:
3 transmitting an authentication request from a modem to multiple
4 domain names over a PPPoE network ; and
5 receiving authorization from at least one of said domain names.
- 1 2. The method of claim 1, further comprising, prior to said transmitting
2 step, the step of providing a modem that includes a list of said multiple
3 domain names, where each of said domain names is associated with a
4 different Broadband Service Node (BSN).
- 1 3. The method of claim 1, further comprising, prior to said transmitting
2 step, the step of establishing a PPPoE session.
- 1 4. The method of claim 1, further comprising, prior to said transmitting
2 step, the steps of:
3 requesting only a single identifier from a user of a client
4 computer;
5 receiving said identifier; and
6 storing said identifier.
- 1 5. The method of claim 4, wherein said transmitting step comprises
2 transmitting an authorization request containing said identifier and a generic
3 password to each of said multiple domain names.
- 1 6. A method of claim 1, wherein said receiving step comprises acquiring
2 at least one static Internet Protocol (IP) address.
- 1 7. The method of claim 6, further comprising:

transmitting a configuration request to an Internet Service Provider (ISP), where said configuration request is addressed from said static IP address;
receiving full configuration details from said ISP, where said full configuration details are addressed to said static IP address; and
automatically configuring said modem based on said full configuration details.

8. A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:

at least one client computer;
a modem coupled to said client computer, said modem including a memory comprising:
instructions for transmitting an authentication request from said modem to multiple domain names over a PPPoE network ; and
instructions for receiving authorization from at least one of said domain names;
multiple Broadband Service Nodes (BSNs) coupled to said modem, where each of said multiple domain names is associated with a different one of said multiple BSNs; and
an authentication server coupled to each one of said multiple BSNs.

9. The system of claim 8, further comprising:

a Digital Subscriber Line Access Multiplexor (DSLAM) coupled between said modem and said BSNs;
an Asynchronous Transfer Mode (ATM) network coupled between said DSLAM and said BSNs; and
a Broadband Remote Access Server (BRAS) coupled between said ATM network and said BSNs.

1 10. The system of claim 8, wherein said BSNs are coupled to the Internet.

1 11. The system of claim 8, wherein said memory further comprises a
2 generic password.

1 12. A computer program product for use in conjunction with a computer
2 system for provisioning broadband service in a Point-to-Point Protocol Over
3 Ethernet (PPPoE) network, the computer program product comprising a
4 computer readable storage and a computer program stored therein, the
5 computer program comprising:

6 instructions for transmitting an authentication request from said
7 modem to multiple domain names over a PPPoE network ; and
8 instructions for receiving authorization from at least one of said
9 domain names.